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| APPLICATION NO.                            | FILING DATE    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO.       |  |
|--|----------------|----------------------|---------------------|------------------------|--|
| 09/975,690                                 | 10/11/2001     | William W. Lee       | NY-THEOR 203.1-US   | NY-THEOR 203.1-US 2373 |  |
| 24972 7                                    | 590 02/27/2006 |                      | EXAM                | EXAMINER               |  |
| FULBRIGHT & JAWORSKI, LLP<br>666 FIFTH AVE |                |                      | CHOUDHURY, AZIZUL Q |                        |  |
|  | NY 10103-3198  |                      | ART UNIT            | PAPER NUMBER           |  |
|  |                |                      | 2145                | •                      |  |

DATE MAILED: 02/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

|  | Application No.   | Applicant(s)   |               |  |
|--|---|--|---------------|--|
|  | 09/975,690 LEE ET A   |  | AL.           |  |
| Office Action Summary  | Examiner  | Art Unit   |               |  |
|  | Azizul Choudhury  | 2145   |               |  |
| The MAILING DATE of this communication app<br>Period for Reply   |   | the correspondence a   | ddress        |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply vill apply and will expire SIX (6) MONTHS, cause the application to become ABANA | TION. be timely filed from the mailing date of this DONED (35 U.S.C. § 133). |               |  |
| Status   |   |  |               |  |
| 1)⊠ Responsive to communication(s) filed on <u>08 De</u>   | ecember 2005  |  |               |  |
|  | action is non-final.  |  |               |  |
| 3) Since this application is in condition for allowar  |   | prosecution as to the  | ne merits is  |  |
| closed in accordance with the practice under E   | •   | •  | ic mento io   |  |
| Disposition of Claims  | , p   | .,   |               |  |
| 4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.  |   |  |               |  |
| 4a) Of the above claim(s) is/are withdraw  |   |  |               |  |
| 5) Claim(s) is/are allowed.  | vii iioiii consideration.   |  |               |  |
| 6) Claim(s) <u>1-20</u> is/are rejected.   |   |  |               |  |
| 7) Claim(s) <u>1-20</u> is/are rejected.   |   |  |               |  |
|  | r cloation requirement  |  |               |  |
| 8) Claim(s) are subject to restriction and/or  | election requirement.   |  |               |  |
| Application Papers   |   |  |               |  |
| 9) The specification is objected to by the Examine   | r.  |  |               |  |
| 10)⊠ The drawing(s) filed on 18 January 2002 is/are:   | a)⊠ accepted or b)☐ obje  | cted to by the Exami   | ner.          |  |
| Applicant may not request that any objection to the  | drawing(s) be held in abeyance.   | See 37 CFR 1.85(a).  |               |  |
| Replacement drawing sheet(s) including the correcti  | ion is required if the drawing(s) i   | s objected to. See 37 (  | CFR 1.121(d). |  |
| 11) ☐ The oath or declaration is objected to by the Ex-  | aminer. Note the attached O   | ffice Action or form F   | PTO-152.      |  |
| Priority under 35 U.S.C. § 119   |   |  |               |  |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau   | s have been received.<br>s have been received in Appl<br>ity documents have been rec  | cation No  | ıl Stage      |  |
| * See the attached detailed Office action for a list of Attachment(s)  | 4)  Interview Sum<br>Paper No(s)/M  |  | ΓO-152)       |  |
|  | · <del>-</del>  |  |               |  |

#### **Detailed Action**

This office action is in response to the correspondence received on December 8, 2005.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over lyengar et al (US Pat No: US006018627A) in view of Anne Thomas ("Container-Managed Persistence"), hereafter referred to as lyengar and Thomas, respectively.

1. With regards to claim 1, Iyengar teaches through Thomas, a method of generating code for Enterprise JavaBean (EJB) components from a business process, comprising the steps of graphically modeling said business process using a UM L drawing tool to provide an UML model having a plurality of EJB Classes; defining relationships between said plurality of EJB classes; stereotyping each of said plurality of EJB classes into one or more EJB components; transforming each of said EJB components into EJB source code; anal embedding code marker; in said EJB source code to enable subsequent updates to said EJB source code

(Iyengar teaches an UML design (column 3, line 45 – column 4, line 33, Iyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, Iyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, Iyengar). Iyengar's design also allows for business logic (Figure 3, Iyengar). Where business logic exists, means by which to implement business logic are present. Code markers are such means. However, Iyengar's design does not teach EJB specific traits.

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Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

Both Iyengar and Thomas teach designs for software development.

Therefore, it would have been obvious to one skilled in the art, during the time of invention, to have combined the teachings of Iyengar with those of Thomas, to enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

 With regards to claim 2, Iyengar teaches through Thomas, the method further comprising the step of compiling said EJB source code to generate EJB application in accordance with deployment properties (lyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). Iyengar also discloses how source code is compiled (build) to generate applications in accordance with deployment properties (Figure 3, item 34, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

Both lyengar and Thomas teach designs for software development.

Therefore, it would have been obvious to one skilled in the art, during the time of invention, to have combined the teachings of lyengar with those of Thomas, to enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

3. With regards to claim 3, lyengar teaches through Thomas, a method further comprising the step of deploying slid EJB application. to a server using one of the following: bean managed persistence or container managed persistence

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(Iyengar teaches an UML design (column 3, line 45 – column 4, line 33, Iyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, Iyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, Iyengar). However, Iyengar's design does not teach EJB specific traits.

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Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that persistence or container managed persistence is available (p. 1, Thomas). Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

Both lyengar and Thomas teach designs for software development.

Therefore, it would have been obvious to one skilled in the art, during the time of invention, to have combined the teachings of lyengar with those of Thomas, to enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

4. With regards to claim 4, Iyengar teaches through Thomas, a method wherein the step of stereotyping stereotypes an EJB class into at least one of the following

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Smart EJB component: Belonging, Session, Entity, Configurable Entity, Business Policy and Workflow

(Iyengar teaches an UML design (column 3, line 45 – column 4, line 33, Iyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, Iyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, Iyengar). However, Iyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent. In addition, the claimed trait is a trait of EJB and Thomas teaches how EJB is available.

5. With regards to claim 5, Iyengar teaches through Thomas, a method wherein an Entity EJB component comprises at least one interface and two EJB classes

(lyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent. In addition, the claimed trait is a trait of EJB and Thomas teaches how EJB is available.

6. With regards to claim 6, Iyengar teaches through Thomas, the method wherein said Entity EJB component being associated with a Primary Key class and a Value class

(lyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent. In addition, the claimed trait is a trait of EJB and Thomas teaches how EJB is available, especially since Java is an object oriented language.

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7. With regards to claim 7, Iyengar teaches through Thomas, the method wherein each EJB component includes at least one of the following: name, stereotype, attribute and method

(lyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent. In addition, the claimed trait is a trait of EJB and Thomas teaches how EJB is available.

8. With regards to claim 8, lyengar teaches through Thomas, the method wherein each attribute includes a pair of accessor methods

(lyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent. In addition, the claimed trait is a trait of EJB and Thomas teaches how EJB is available, in particular, it corresponds to EJB object interface used by the client to access the business method within the object (p. 3, Thomas).

9. With regards to claim 9, lyengar teaches through Thomas, the method wherein said relationships includes at least one of the following: inheritance and aggregation

(Iyengar teaches an UML design (column 3, line 45 – column 4, line 33, Iyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, Iyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). However, Iyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent. In addition, the claimed trait is a trait of EJB and Thomas teaches how EJB is available, in particular it corresponds to extending a preexisting object class for new functionality (inheritance) and simple containment of another object (aggregation) (p. 7, Thomas).

enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

10. With regards to claim 10, lyengar teaches through Thomas, the method wherein said aggregation includes multiplicity

(Iyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent. In addition, the claimed trait is a trait of EJB and Thomas teaches how EJB is available, in particular it corresponds to when an object could point to hundreds of other objects (p. 7, Thomas).

enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

11. With regards to claim 11, lyengar teaches through Thomas, a method further comprising the steps of: determining if said multiplicity relationship is one to many; and stereotyping said aggregation relationship into a collection type if it is determined that said multiplicity relationship is one to many

(lyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). Plus, lyengar discloses how relationships such as aggregation is permitted (column 4, lines 3-11, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent. In addition, the claimed trait is a trait of EJB and Thomas teaches how EJB is available, in particular it corresponds to object relationships (p. 7, Thomas).

Both Iyengar and Thomas teach designs for software development.

Therefore, it would have been obvious to one skilled in the art, during the time of invention, to have combined the teachings of Iyengar with those of Thomas, to enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

12. With regards to claim 12, lyengar teaches through Thomas, the method wherein said collection type includes one of the following: Set, Array, List or Map

(Iyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). Plus, lyengar discloses the use of repositories (collection type) (column 4, lines 21-26, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

Both lyengar and Thomas teach designs for software development.

Therefore, it would have been obvious to one skilled in the art, during the time of

invention, to have combined the teachings of Iyengar with those of Thomas, to enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

13. With regards to claim 13, lyengar teaches through Thomas, the method wherein each EJB component is a Smart Component having at least one Smart Feature

(Iyengar teaches a UML design (column 3, line 45 – column 4, line 33, Iyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, Iyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). Plus, since any language is permissible (including Java, an object oriented language), classes are acceptable for the design and hence means are present by which to provide the claimed traits. However, Iyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

14. With regards to claim 14, Iyengar teaches through Thomas, the method wherein said Smart Feature includes one of the following: SmartKey, SmartHandle and SmartValue

(lyengar teaches a UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). Plus, since any language is permissible (including Java, an object oriented language), classes are acceptable for the design and hence means are present by which to provide the claimed traits. However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

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enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

15. With regards to claim 15, lyengar teaches through Thomas, the method wherein said Smart component is an eBusiness Smart Component

(lyengar teaches a UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). Plus, since any language is permissible (including Java, an object oriented language), classes are acceptable for the design and hence means are present by which to provide the claimed traits. Furthermore, lyengar's design is intended to allow for eBusinesses (column 3, lines 56-65, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

Both Iyengar and Thomas teach designs for software development.

Therefore, it would have been obvious to one skilled in the art, during the time of

invention, to have combined the teachings of lyengar with those of Thomas, to enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

16. With regards to claim 16, lyengar teaches through Thomas, the method wherein the step of transforming includes the step generating said EJB codes according to a Code Template Dictionary

(Iyengar teaches a UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). Plus, lyengar's design allows for a repository (column 4, line 26 - column 5, line 10, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

17. With regards to claim 17, Iyengar teaches through Thomas, the method wherein said Code Template Dictionary includes key-value pair entries

(Iyengar teaches a UML design (column 3, line 45 – column 4, line 33, Iyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, Iyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, Iyengar). Plus, Iyengar's design allows for a repository (column 4, line 26 – column 5, line 10, Iyengar). The repository allows for a variety of data to be stored. However, Iyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

18. With regards to claim 18, lyengar teaches through Thomas, the method wherein values of said Code Template Dictionary represent EJB code templates

(lyengar teaches a UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, lyengar). Plus, lyengar's design allows for a repository (column 4, line 26 – column 5, line 10, lyengar). The repository allows for a variety of data to be stored. However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

19. With regards to claim 19, lyengar teaches through Thomas, the method wherein the step of embedding includes the step of adding business .logic code between said code markers

(Iyengar teaches an UML design (column 3, line 45 – column 4, line 33, Iyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, Iyengar discloses how the design allows for any language to be incorporated with the design (column 9, lines 32-35, Iyengar). Iyengar's design also allows for business logic (Figure 3, Iyengar). Where business logic exists, means by which to implement business logic are present. Code markers are such means. However, Iyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

enable portability across application servers, component reusability and increased developer productivity (p. 1, Thomas)).

20. With regards to claim 20, lyengar teaches through Thomas, the method further comprising the step of synchronizing said UML model with said business logic code, thereby providing support for iterative development cycle

(Iyengar teaches an UML design (column 3, line 45 – column 4, line 33, lyengar). A UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar's design provides complete service from design composition to product deployment (Figures 2A, 2B, 10A, 10B, 10C, and 14, lyengar). However, lyengar's design does not teach EJB specific traits.

Thomas discloses the traits of EJB. Within the disclosure, Thomas teaches that mapping tools are available in EJB to enable persistence. Within persistence, code can be updated since the code itself is in a database and is applied only when needed. This allows for updates to the code to occur to ensure when an instance of an object is run, the code it is mapped to is recent.

## Response to Remarks

The amendment received on December 8, 2005 has been reviewed but is not deemed fully persuasive. In lieu of the claim amendment to claim 20, the 112 rejection previously issued has been retracted. All other claims remain unchanged. After review of the remarks portion of the applicant's amendment, the examiner has decided to stand by the rejection established in prior office action, with only minor clarifications to the rejections of the independent claims. The following are responses to the applicant's concerns expressed within the remarks portion of the amendment.

One issue the applicant remark upon is that the prior arts issued cannot be combined. After reviewing the prior arts, the examiner has decided to stand by the combinations of the prior arts. The two prior arts are in the same field of endeavor and share that field with the claimed invention.

Another issue remarked upon by the applicant is the teaching of code markers by the prior art. The examiner has revised the explanation in the rejections to clarify the office's stand on the issue. Iyengar's design allows for business logic (Figure 3, Iyengar). Where business logic exists, means by which to implement business logic are present. Code markers are such means. This is supported by the applicant's own specification (p. 7, lines 1-2) where it is stated "...embeds code markers, thereby permitting developers to add the business logic..."

As for the remarks concerning "round trip engineering," the amendment has changed that phrasing to "iterative development cycle." For this feature, lyengar

teaches that a UML enables a user to graphically model business models along with their relationships and translate them into source code. In addition, lyengar's design provides complete service from design composition to product deployment (Figures 2A, 2B, 10A, 10B, 10C, and 14, lyengar).

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Azizul Choudhury whose telephone number is (571) 272-3909. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571) 272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AC

JASON CARDONE SUPERVISORY PATENT EXAMINER